



Ministry of Communications and
Information Technology



Information Technology Institute



Professional Developer Track

System Development & Gaming
Center Of Excellence
Intake 35

Historical Background

- **Professional Developer(PD) track is the main track in System Development Center of excellence through all years**
- **PD was established from intake 1, and it is being updated in each intake according to new technologies**

Track Purpose

- PD aims to graduate professional, world class, and well educated software engineering developers
- PD graduates working as Software Developer will be capable of using different technologies and techniques

Graduate Profile

- The graduate of this track will be responsible for reviewing, analyzing, developing systems and occasionally modifying systems
- In addition to, evaluating and implementing ways to incorporate existing or new technologies
- Graduates will also be responsible for the development of Business Intelligence artifacts according to development procedures and standards
- They will have excellent problem-solving and analytical skills for figuring out how different software components work together, as well as concentrating on intricate projects and small details for long periods of time

Graduate Profile (cont.)

They are strongly prepared to have job in these fields

Desktop & Web Application Developer

Using C# combined with database and Advanced SQL programming skills. Design and develop Web Applications, Web Services using .NET technologies along with HTML5 and JavaScript Frameworks .

Business Intelligence Developer & Big Data Specialist

Using Microsoft & IBM technologies and concepts to Create Business intelligence applications to harness the

capabilities of Big Data Solutions

SharePoint Developer

Design and Develop Web based application using Microsoft SharePoint Technologies.

Cloud Developer

Design and Develop Applications that are targeted for the new Windows Azure platform.

Graduate Domain

- Software Development Industry
- Communication Technology Industry
- Business Intelligent & Big Data Systems

List of Courses (Foundation Courses)

Introduction to Software Engineering

Computer Networks Fundamentals

C Programming Language

Data Structures and Algorithms

Object-Oriented Programming Using C++

List of Courses (cont.)

(Desktop + Web Development Courses)

Introduction to SQL Server Programming

JavaScript & Dynamic HTML

Advanced JavaScript

XML Fundamentals

Advanced SQL Server Programming

Visual C# .Net Using Framework 4.5

Language Integrated Query(LINQ)

Entity Framework

ASP.NET

AJAX & ASP.Net MVC

XML web Services and WCF

Windows Presentation Foundation

HTML5 Application Development Fundamentals

Windows Workflow Foundation

C# .NET Threading & Network Programming

WCF Data Services

JQuery Fundamentals

Microsoft Share Point Server

ASP.Net SignalR

List of Courses (cont.) (Design & Supportive Courses)

.Net Design Patterns

Agile Software Development Methodologies

Object Oriented Analysis & Design using UML

Unit Testing

List of Courses (cont.)

(Business Intelligence & Big Data Courses)

Microsoft SQL Server - Business Intelligence

Microsoft SQL Admin

Data Mining Concepts

Performance Point Server, PowerPivot and PowerView

Big Data Analytics and Hive

IBM Datastage and Integration

IBM Cognos Reporting

NOSQL DB

Microsoft Azure DataStorage and HDInsight

List of Courses (cont.) (Cloud Development Courses)List of Courses

Introduction to Cloud Computing

Microsoft Azure For Developer

List of Courses (cont.) (Soft Skills)

Effective Communication Skills

Effective Presentation Skills

Interviewing Skills

Creative Thinking

Marketing Management

Time and Stress Management

Leadership and Motivation

Team Building

Certificates

Our graduates are qualified to be certified as:

- **Microsoft Technology Associate (MTA)**
- **Microsoft Certified Technology Specialist(MCTS)**
- **Microsoft Certified IT Professional (MCITP)**
- **Microsoft Certified Professional Developer(MCPD)**
- **Microsoft Certified Master Program(MCM)**

References

- <https://www.windowsazure.com/en-us/>
- <http://www.asp.net/>
- <http://www.microsoft.com/enus/sqlserver/default.aspx>
- <http://www.microsoft.com/en-us/powerbi/default.aspx>
- <http://azure.microsoft.com/en-us/solutions/big-data/>
- <http://msdn.microsoft.com/enus/library/gg271151%28v=office.14%29.aspx>

Our Staff

- **SDGCoE Staff combines a strong technical background with high interpersonal skills and academic skills, with certificates and experience in wide varieties of areas.**
- **SDGCoE Staff members**
 - Eng. Hany Safwat
 - Eng. Yasmine Diab ,M.Sc.
 - Mrs. Sherihan Mohamed
 - Eng. Nivin Nasr ,M.Sc.
 - Mr. Rami Abo Nagi
 - Ms. Reham Hesham ,M.Sc.
 - Mrs. Noha Thabet
 - Eng. Hossam Emam
 - Eng. Ibrahim Mohamed
 - Eng. Abdullah Eldandrawy

Contact us

You can contact SD staff at :

- **Rooms : 3011 & 3012**
- **Tel : (202)- 35355584**
(202)- 35355587
(202)- 35355592
(202)- 35355508
- **Email:**
SDITI.EGYPT@gmail.com

ITI Links



Common FAQs

URL: <http://www.iti.gov.eg/faq>



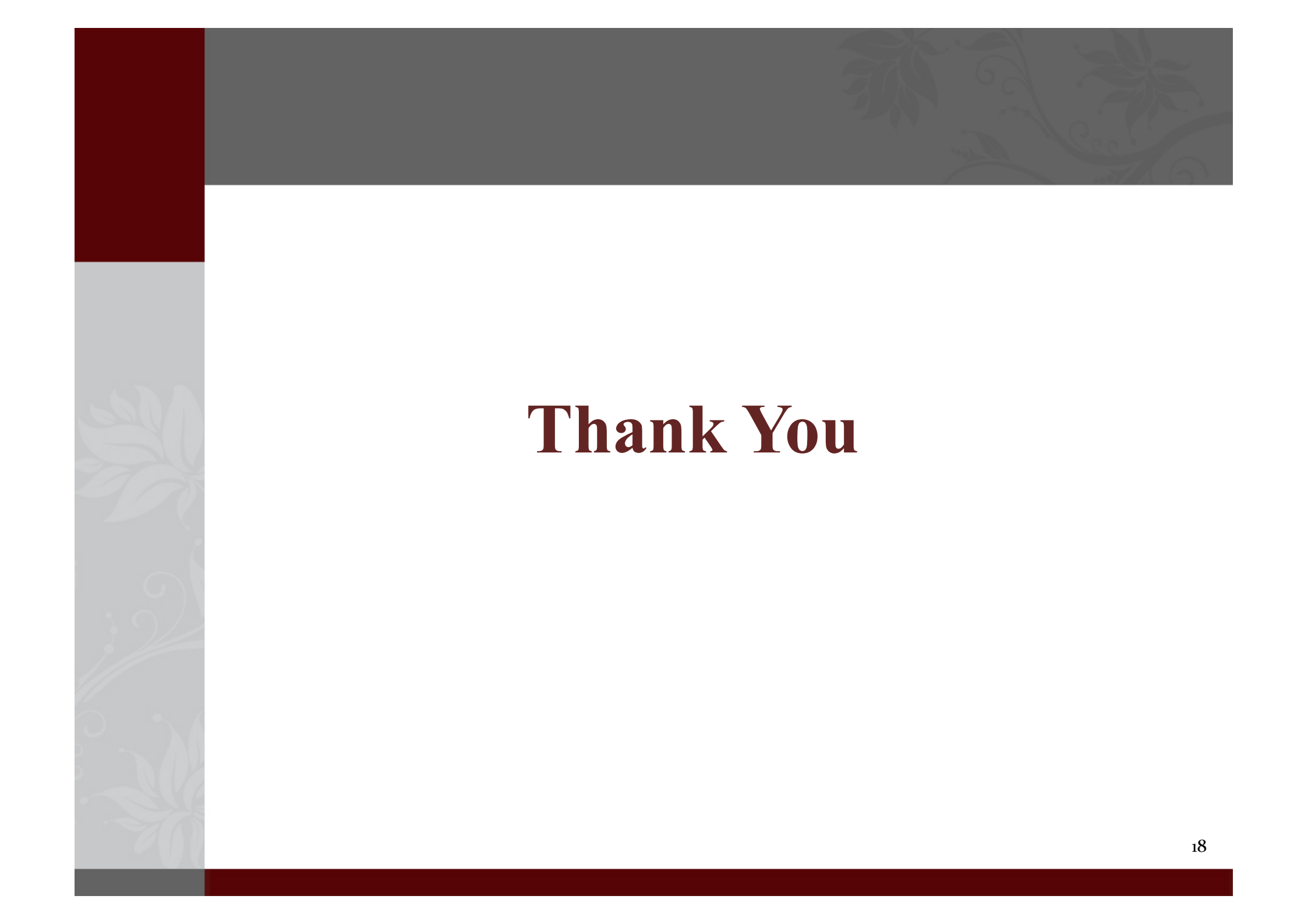
Connect with ITI : Ask iTi

URL: <http://www.facebook.com/Ask.iTi.gov>



Tracks Information

URL: <http://www.iti.gov.eg/students/53/9-month-professional-diploma>



Thank You